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NEW SPECIES OF AMERICAN MOTHS.\*—Mr. Grote is still supplying us with descriptions of our moths, which will make their study all the easier for students. We cannot agree with him in placing (after Lederer's example) the species of *Hypena* and indeed all the "Deltoids" among the Noctuids, believing that they run into the true *Pyralids*, whether we consider the larval or adult characters.

Unfortunately for lepidopterists the second paper we notice is but a fragment. It is a mere outline of an extended memoir in which all the North American species known to the author as belonging to the genus *Catocala* were fully described. This paper was lost in transportation. This beautiful genus, says Mr. Grote, "seemed to have its largest representation in North America, and to attain with us its fullest development." Fifty-four species are described.

ILLUSTRATIONS OF NORTH AMERICAN ENTOMOLOGY.†—We have before alluded to the beautiful and useful plates which Mr. Glover has for years past been preparing, and now only regret that more copies of the present work have not been struck off. The volume before us is one of the most important works on entomology that has appeared in this country. On the thirteen large plates are crowded admirable colored figures of every kind of grasshopper and allied forms that Mr. Glover has been able to obtain, either from his own cabinet or those of his friends. They are authentically named, according to Scudder's catalogue, and need scarcely any letter-press to enable them to be determined by the young entomologist.

The text accompanying these plates, besides giving full explanations of the figures, contains concise notices of the habits of

Id., *ibid*, 1866, 97. ("Whole interior of N. Am.")—SCL. P. Z. S. 1862, 369. ("Mexico.")—DALL & BANN., Trans. Chicago Acad. 1869, 292 ("ALASKA.")—ALLEN, Bull. Mus. Comp. Zool, iii, 1872, 182. ("Colorado.")—HENSHAW, Am. Nat. vi, 1872, 306. (Long Island, Mass.)

*Tringa Bairdii* SCL. P. Z. S., 1867, 332. (Santiago, Chili.)—Id. et SALV. *ibid.*, 1868, 144. ("Conchitas, Argentine Republic.") (Other recorded S. Am. localities are Panama, New Granada (*Salvin*) and Tambo, Peru, (*Whitely*;) fide HARTING, NEWTON, P. Z. S. 1871, 57. (Egg.)—HARTING, Ibis, 1870, 151, et apud ANDERSSON, B. Damara Land, 1872, 308 (Walwich Bay, S. W. Africa.)—GRAY, H. - L. 1871, iii, 49, No. 10308.—COUES' KEY N. A. BIRDS, 1872, 255.

\*On the North American species of *Catocala*. Jan., 1872, 8vo. pp. 28. Description of North American Noctuidæ, No. 2. Sept., 1872. 8vo, pp. 19. By A. R. Grote. (From the Transactions of the American Entomological Society, vol. iv. Philadelphia.)

† Illustrations of North American Entomology (United States and Canada). By Townsend Glover. Orthoptera. Washington, 1872. 4to with 13 plates, pp. 12.

these insects, and an alphabetical list of the vegetable and animal substances injured by them.

It will be of great use to agriculturists, and when the author feels tempted to issue an edition for the public (the present edition of fifty copies is intended for distribution among entomologists and entomological societies only) we are sure that the work will be highly valued.

Mr. Glover proposes to "publish yearly, or from time to time, additional plates, etc., of the same size and in similar style, of any new or rare Orthoptera which may be added to our list by the expeditions or by private enterprise, as likewise, eventually to illustrate all the other orders of insects in a similar manner."

THE FORMS OF WATER.\* — Prof. Tyndall leads off in the admirably projected "International Scientific Series," which we owe to the earnest efforts of Prof. Youmans, and the energy and liberality of the Messrs. Appleton. We are so late in noticing the present attractive volume that probably most of our readers have bought it. Those who have not seen it have a rare treat in store, as it fully equals Tyndall's other works in the lucidity and interest of its style, and is of special value as giving in a simple, condensed form the views of the pioneers in glacial studies. The series comprises a large number of subjects to be treated by the leading scientists of the old and new world, and when completed will form an admirable library of science.

PHYSICS AND POLITICS.† — This little volume, consisting of six essays, may fairly claim, we think, to be considered a valuable addition to anthropological literature. It certainly is strictly scientific throughout, and commends itself, by its clear statements of facts, to the intelligent reader. It is not merely an outline of the works of others, or an attempt to popularize the history of the human races of prehistoric periods.

Mr. Bagshot takes up the subject of the very early condition of mankind, and while viewing him in a light quite different from that either of Lubbock or Tylor, yet draws the same conclusions: and

\* The Forms of Water in Clouds and Rivers, Ice and Glaciers. By John Tyndall, LL.D., F.R.S. With thirty-five illustrations, etc. New York, D. Appleton & Co. 1872. 12mo, pp. 192.

† Physics and Politics; or, Thoughts on the application of the Principles of "Natural Selection" and "Inheritance" to Political Society; by Walter Bagshot, Esq., New York: D. Appleton & Co: being the Second Volume of the International Scientific Series.